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The Institute for Mesearch on Physics of Solids, Berlin-Buch, Lindenberger Tog 76, 1 part of the East German Academy of Sciences, is under the 25X1 directorship of Professor Dr. Friedrich Moeslich. Loeglich at the same time occupies the chair for theoretical physics at Berlin Humboldt University and is head of its Institute for Theoretical Physics. Foeflich is a member of the SaD and an eager advocate of the Communist system. He has lately been instrumental in firing employees from cast German academic institutes who live in .est Berlin, or those who are thought to be politically unreliable. It is commonly believed among German scientists that Moeglich adheres to Communism for opportunistic reasons rather than out of conviction. Preceding the last war, he was an ardent National Socialist and wore the uniform of Hitler's SA troops. It is known that as an SA trooper he participated in the Nazi actions against German Jews. He left the National Socialist party involuntarily because he was accused of having relations with a Jewish woman. In his appeal against the decision of the Nazi Party court, Moeglich denied the charge and applied for reachission into the NSDAP. The appeal was 25X1 rejected.

- After his expulsion from the Nazi Party, Noeglich, under the influence of Communist Professor Robert Nompe, became a Communist sympathizer; he continues to be closely associated with Robe, Noeglich is not now doing serious scientific work; he confines himself in addition to lecturing at the University to the administrative and political supervision of the two institutes under his direction. The reputation of being a good theoretician and "computer" which he enjoyed for some time in German scientific circles has long since vanished. It is generally believed that Moeglich's Communist leanings are mainly based on the realization that his scientific abilities are not sufficient for him to hold a post in 'est Germany similar to the one he now occupies. Moeglich has, until recently, tried to create the atmosphere of a certain political tolerance in his Institute. It was, for instance, a well known and accepted fact that almost no political indoctrination courses were held in Moeglich's Institute. This situation was recently changed and hoeglich has become a staunch advocate of political indoctrination for scientists.
- 3. Research being done at the Institute centers mainly around qualities of sadminnesulphide crystals when exposed to the influence of light electrons and X-rays. The Institute is divided into covered department.

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- a) The Optical Department, headed until the fall of 1952 by Dr. Josef Passbender. After the latter's defection to West Germany, Dr. Wilhelm Juscheid was appointed acting head of the Department. Muscheid is not doing research on the influence of oxygen upon the conductivity of medial menionide crystals. Together with Dipl. Physicist Wilhelm 1941 by Muscheid specifically does research on the relations between 1942 after and oxygen contents in Idd crystals and the photo current that a feature member of the Optical Department. Fraulein 1944 after 1944 and a patrion and the optical Department. Fraulein is the allocation of potential in the different Dr. Hernhard Department and county of the master and algorithm for partial in the member of political unreliability; Beraphin defected to West Germany.
- 100 b) The Midstronics Department, needed by Dr. (fnu) Eckert, 1 was formerly with the Oberspreewerk and joined too Institute about nine months ago. Ackert is doing experimental work with television tubes. . Dipl. Physicist Gerhard Schubert carries out research on the distribution of the potential of CdS crystals subjected to bombardment with electrons characting from a glow cathode and directed upon the crystals with a foressing installation. This is done in high vacuum. The high vacuum equipment comes from the Leybold firm in Cologne. Physicist Gerhard Hueller is engaged in research on the decay of luminescence of various substances. The decay time of luminescence is studied by means of a multiplier, an amplifier and an oscillograph. It is expected that the results of Mueller's work can be put to use to develop television screens with a very short decay time. Physicist Heinz Dictrich, also formerly with the Oberspreewerk, is growing silicon crystals. The crystals so far grown have the maximum size of a pinhead. No research with silicon crystals has yet been done. It is, however, hoped that transistor effects similar to those of germanium crystals will be found.
- a) The Chemical Department, Head of this department is Dr. Otto Neunhoeffer, professor for theoretical Organic Chemistry at Humboldt University and acting head of its Organic Chemical Institute following the defection to the United States of its former nead, Professor Christian Grundmann. Numbersfer's function at the Institute is mainly advisory; he is not emgaged in active research. Chemical analyst Dr. Rudolf Schlueter is datag research on methods to indicate and measure such impurities in USS crystals and other solids as are necessary to generate photo gurrent effects. Dipl. Chemist District Rosabl is investigating the dependency of the fluorescence cower of organic substances from the appropriate the year and a recommendation of the following the bide. Bolland-Well are making Gdb crystals. Holland-Well makes them from sulphur and cadmium in vaporized form according to the procedure initiated by Fredrichs and later adopted and developed by Fassbender. The result is CdS crystals in the form of extremely thin foils. Ebert ankes crystals from molten cadmins sulphide. As a result, crystals of spherical shape about the size of a pea were obtained for the first time in November 1952.
- d) The Department for Structure Research is headed by Dr. Hellmut Simon he is engaged in experimental work on the use of CdS crystals as X-ray dosimeters. His so far unsuccessful efforts aim at the production of CdS crystals with such stable qualities that the same photo current is always generated by bombardment with one roentgen per second.

 Dipl. Physicist Gerhard Eichhoff is doing research on the energy bands of the CdS crystal when exposed to ultra soft X-Rays of about 10 angstrom. Pescarch initiated by Dipl. Physicist Hans Thiel on the exposure of CdS crystals to X-rays and infra-red rays (killer effect) was suspended because Thiel had to take a long-term hospital cure for tuberculosis.

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- e) A new department is now being established. This department will be engaged in theoretical research on the physics of solids. Dr. Gerhard Hoehler, Moeglich's chief assistant in the Institute for Theoretical Physics, has been appointed its head.
- 4. The entire work of the Institute is very much dependent upon the mounting of the CdS crystals made in the Chemical Department of the Institute into CdS cells. Since Fassbender defected to West Germany, chief laboratory testinician (fnu) Peschke is the only person in the Institute who can properly do this task.

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